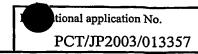
TENT COOPERATION TREA

Translation REPLACE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooneration Treats)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SP60	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No.	International filing date (day/month/year	Priority date (day/month/year)
PCT/JP2003/013357	17 October 2003 (17.10.2003)	22 October 2002 (22.10.2002)
International Patent Classification (IPC) or n F21S 2/00, F21V 5/00, 7/00, G0	ational classification and IPC 2F 1/13357, F21Y 101: 02, 103: 00, G	09G 3/34, 3/36, 3/20
Applicant	SHARP KABUSHIKI KAISHA	
	minary examination report, established by smitted to the applicant according to Articl	
2. This REPORT consists of a total of	sheets, including this cov	er sheet.
3. This report is also accompanied by	ANNEXES, comprising:	
a. (sent to the applicant and	l to the International Bureau) a total of	sheets, as follows:
	ntaining rectifications authorized by this A	re been amended and are the basis of this report uthority (see Rule 70.16 and Section 607 of the
	osure in the international application as fil	ority considers contain an amendment that goes ed, as indicated in item 4 of Box No. I and the
	, containing a sequence li ndicated in the Supplemental Box Relatin	type and number of electronic carrier(s)) sting and/or tables related thereto, in computer g to Sequence Listing (see Section 802 of the
4. This report contains indications rela	ating to the following items:	
Box No. I Basis of the re	eport	
Box No. II Priority		
Box No. III Non-establish	nment of opinion with regard to novelty, in	ventive step and industrial applicability
Box No. IV Lack of unity	of invention	
Box No. V Reasoned state citations and	tement under Article 35(2) with regard to nexplanations supporting such statement	ovelty, inventive step or industrial applicability;
Box No. VI Certain docur		
Box No. VII Certain defec	ts in the international application	
Box No. VIII Certain obser	vations on the international application	
Date of submission of the demand	Date of completi	on of this report
22 April 2004 (22.04.	2004) 1	1 January 2005 (11.01.2005)
Name and mailing address of the IPEA/JP	Authorized office	
Facsimile No.	Telephone No.	

INTERNATIONAL PRELIVENARY REPORT ON PATENTABILITY



Box No.	x No. I Basis of the report								
		to the language, this report is base dicated under this item.	d on the international application in the lan	guage in which it was filed, unless					
		report is based on translations fro h is language of a translation furnis	m the original language into the followin hed for the purpose of:	g language,					
		international search (under Rules 1	2.3 and 23.1(b))						
1		publication of the international app	olication (under Rule 12.4)						
		international preliminary examinat	tion (under Rules 55.2 and/or 55.3)						
		-							
furnis	shed to re not		ional application, this report is based on o an invitation under Article 14 are referr						
	the de	escription:							
	pages		1-3, 10-33	, as originally filed/furnished					
	pages		received by this Authority on	17 November 2004 (17.11.2004)					
	pages	*	received by this Authority on						
	the cl	aims:							
	pages	····		, as originally filed/furnished					
	pages		······································	gether with any statement) under Article 19					
	pages		received by this Authority on	02 August 2004 (02.08.2004)					
_	pages	* 20-21, 24	received by this Authority on	17 November 2004 (17.11.2004)					
	the d	rawings:							
1	page		1-27	, as originally filed/furnished					
	page		received by this Authority on						
	page	· · · · · · · · · · · · · · · · · · ·	received by this Authority on						
	a seq	uence listing and/or any related tab	le(s) – see Supplemental Box Relating to S	equence Listing.					
3.	The a	mendments have resulted in the ca	ncellation of:						
	\boxtimes	the claims, Nos.	1-7, 11-19, 22-23, 25-28						
		the drawings, sheets/figs							
		the sequence listing (specify):							
		any table(s) related to sequence lis	sting (specify):						
	This	· · · · · · · · ·		and the desired that the second that the second the second that the second that the second the second that the					
4.	made	s, since they have been considered 70.2(c)).	some of) the amendments annexed to this d to go beyond the disclosure as filed, a	s indicated in the Supplemental Box					
	the description, pages								
	the claims, Nos.								
the drawings, sheets/figs									
	\sqcup								
i		any table(s) related to sequence lis	sting (specify):						
* If ite	m 4 ap	plies, some or all of those sheets m	ay be marked "superseded."						

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	8-10, 20-21, 24, 29-31	YES
	Claims		NO
Inventive step (IS)	Claims	8-10, 29-31	YES
	Claims	20-21, 24	NO
Industrial applicability (IA)	Claims	8-10, 20-21, 24, 29-31	YES
	Claims		NO

2. Citations and explanations

- Document 1: JP 2002-55675 A (Matsushita Electric Industrial Co., Ltd.), 20 February 2002
- Document 2: JP 07-191311 A (Kokusai Electric Co., Ltd.),
 28 July 1995
- Document 3: CD-ROM of the specification and drawings annexed to the Japanese Utility Model
 Application No. 81963/1991 (Laid-open No. 4133/1993) (Harrison Electric Co., Ltd.), 22
 January 1993
- Document 4: JP 09-45121 A (Canon Inc.), 14 February 1997

The inventions set forth in claims 20, 21 and 24 do not involve an inventive step.

Claim 20

Document 1 cited in the international search report (page 7, left column, line 26 to page 11, left column, line 40; fig. 1 to 12) sets forth a backlight positioned immediately beneath an object to be illuminated in order to illuminate said object to be illuminated, wherein a luminance inclination is formed in the horizontal and vertical direction on the surface to be illuminated of the aforementioned object to be illuminated.

Document 2 (page 3, right column, line 47 to page 4,

left column, line 21; fig. 1 to 3) sets forth a backlight unit wherein a plurality of LED light sources are positioned immediately beneath an object to be illuminated.

Controlling the luminance generated by a light source in order to control the light distribution of a backlight unit is disclosed in document 3 (page 7, lines 3 to 8; fig. 3) and document 4 (page 3, left column, line 38 to right column, line 3; fig. 1).

Claim 21

Document 1 cited in the international search report sets forth a feature wherein the luminance of light emitted by a backlight unit is differentiated for each concentric area centered around the center of the backlight unit.

Claim 24

Document 1 cited in the international search report sets forth a LCD display device illuminated by a backlight unit.

The inventions set forth in claims 8 to 10 and 29 to 31 are novel and involve an inventive step.

Claim 8

A feature wherein an area where first and second reflective layers are overlapped is formed at a position which corresponds to the central portion of the illuminated surface of the object to be illuminated is not disclosed in any of the documents cited in the international search report, and would not be obvious to a person skilled in the art.

Claims 9 and 10

A feature wherein an area where first and second reflective layers are overlapped is formed at a position which corresponds to the central portion in the horizontal and/or vertical directions of an object to be illuminated, and the luminance of a light source disposed at a position corresponding to the central portion in the vertical and/or horizontal directions is relatively high, is not disclosed in any of the documents cited in the international search report, and would not be obvious to a person skilled in the art.

Claims 29 to 31

A feature wherein an area where first and second reflective layers are overlapped is formed at a position which corresponds to the central portion in the horizontal and/or vertical directions of an object to be illuminated, and the interval between light sources disposed at a position corresponding to the central portion in the vertical and/or horizontal directions is made relatively dense, is not disclosed in any of the documents cited in the international search report, and would not be obvious to a person skilled in the art.